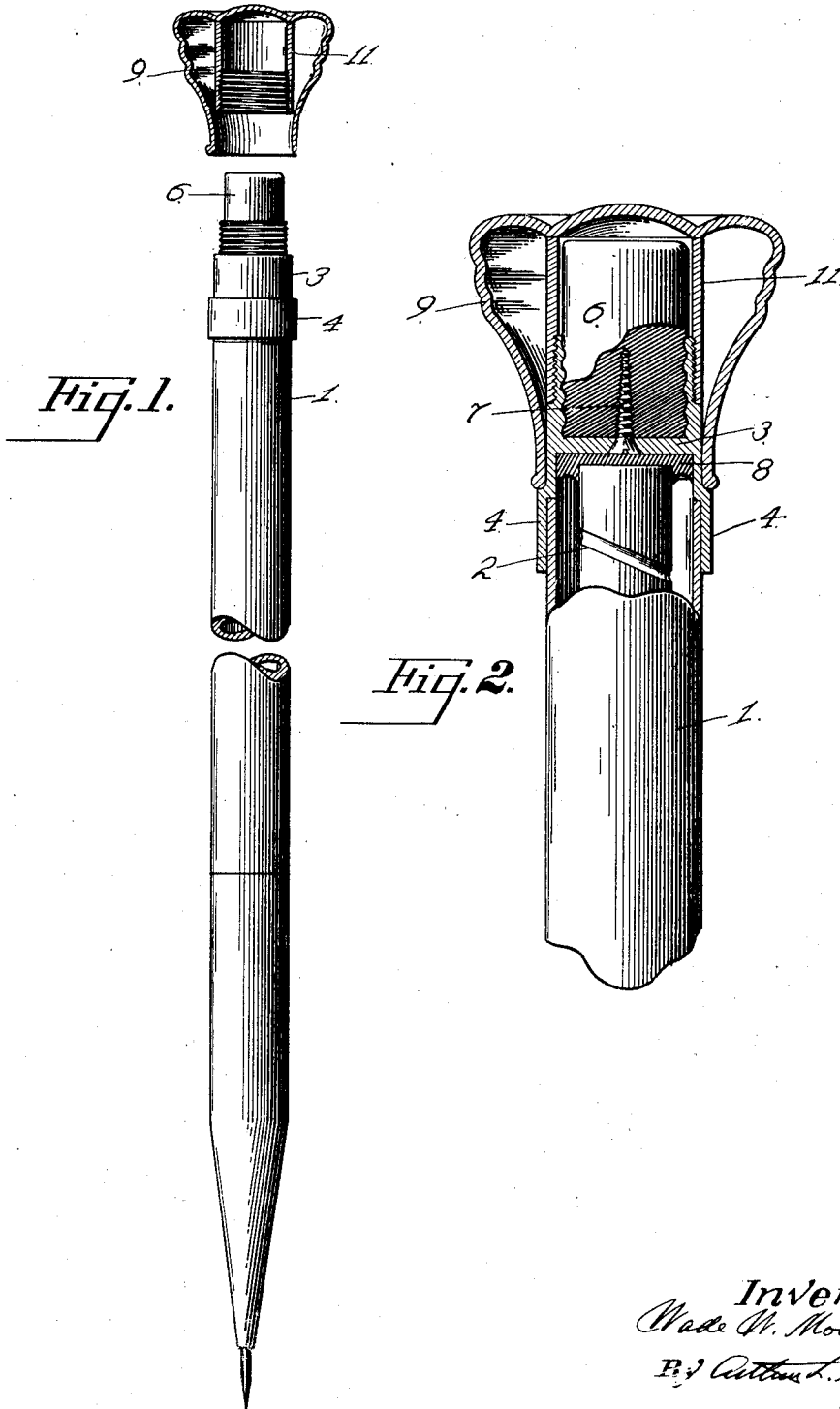


W. W. MOORE.  
 ERASER ATTACHMENT FOR PENCILS.  
 APPLICATION FILED DEC. 1, 1919.

1,352,677.

Patented Sept. 14, 1920.



Inventor  
 Wade W. Moore.  
 By Arthur L. Lee.  
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# UNITED STATES PATENT OFFICE.

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## ERASER ATTACHMENT FOR PENCILS.

1,352,677.

Specification of Letters Patent. Patented Sept. 14, 1920.

Application filed December 1, 1919. Serial No. 342,021.

*To all whom it may concern:*

Be it known that I, WADE W. MOORE, a citizen of the United States, residing in the city of Pittsburg, in the county of Contra Costa and State of California, have invented a certain new and useful Improvement in Eraser Attachments for Pencils, of which the following is a specification.

My invention relates to improvements in eraser attachments for pencils of the type having a permanent body portion and a magazine therein for extra leads and comprises means for securing an eraser to the end of said pencil.

A further object of the invention is to provide a new and novel means for securing an eraser cup and retaining means to the end of a lead magazine.

A still further object of the present invention is to provide a new and novel method for detachably connecting an eraser inclosing means within the magazine operating knob.

Other objects will hereinafter be more fully disclosed.

This invention has for its primary object a new, improved and simple means for attaching an eraser to the type of pencil disclosed in my copending application, filed December 1st, 1919, Serial No. 342,022, reference to which specification is hereby made for a full comprehension of said pencil.

I accomplish these several objects by means of the improved device disclosed in the drawings forming a part of the present specification wherein like characters of reference are used to designate similar parts throughout the said specification and drawings, and in which:

Figure 1 is a broken elevation of a pencil disclosing the inclosing knob removed and in vertical section;

Fig. 2 is an enlarged broken detailed view, partly in vertical section, disclosing more fully the details of construction;

Referring to the drawings the numeral 1 is used to designate a shell or body within which is rotatably mounted a threaded magazine 2 by means of which the operating mechanism, of the pencil, not shown, is actuated.

An internally and externally threaded cup 3 is mounted upon the end of the magazine and extends exteriorly of the shell 1 and said cup 3 is provided with depending flanges 4 adapted to surround the end of the shell 1 and thereby form a bearing for the magazine 2 within said shell 1.

An eraser 6 is mounted within the cup 3 and held therein by the detachable engagement of a screw 7 arranged axially within the cup 3. A solder filling 8 is provided to rigidly and permanently retain the cup 3 to the end of the magazine 2 and also to retain the screw 7 permanently within said cup 3. The eraser 6 is further retained within the cup 3 by engagement with the internal threads of said cup 3.

An ornamental knob 9 is provided with an internally threaded annular flange 11 adapted to engage the external threads of the cup 3 and to inclose said cup 3 and eraser 6 therein.

In ordinary use the knob 9 is mounted, by means of the threaded flange 11 upon the cup 3 and magazine 2. When the eraser 6 is required the operator grasps the depending flange 4 of the cup 3 and the knob 9 and unscrews said knob from said cup when the eraser will then be exposed for use.

After using said eraser 6 the knob 9 is again screwed, by means of the internally threaded flange 11, upon the cup 3 thereby providing an ornamental inclosure for the eraser 6.

The novel construction consists in the solder filling 8 which simultaneously secures the cup 3 to the magazine 2 and the screw 7 within the cup 3.

By means of this simple and novel arrangement the parts are permanently secured together and simple means are thus provided for detachably and effectively retaining an eraser on the end of the pencil.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. The combination with a pencil, comprising a magazine and a shell surrounding the magazine, of a cup mounted upon the end of the magazine and provided with an annular flange to surround the shell of said

pencil; an eraser mounted within the cup; means for retaining said eraser within said cup; and an ornamental knob adapted for engagement with the cup to inclose said cup and eraser therein.

2. The combination with a pencil, comprising a magazine and a shell surrounding the magazine, of an internally threaded cup mounted upon the end of the magazine and provided with an annular flange surrounding the adjacent end of the shell; an eraser mounted within the cup; means for retaining the eraser within the cup; and an ornamental knob arranged to surround said cup and having an internal flange adapted for detachable engagement with the cup.

3. The combination with a pencil, comprising a magazine and a shell surrounding the magazine, of an internally threaded cup mounted upon the end of the magazine; an eraser within the cup; a screw mounted within the cup and arranged to engage and retain said eraser within said cup; and an ornamental knob surrounding the cup and eraser therein and arranged for detachable engagement with said cup.

4. The combination with a pencil, comprising a magazine and a shell surrounding the magazine, of an internally threaded cup having a depending flange to surround the end of the shell; an eraser within the cup; a screw arranged axially within the cup and engaging the eraser to detachably retain the same within said cup; and an ornamental knob surrounding said cup and having an annular depending flange arranged for detachable engagement with said cup.

5. The combination with a pencil, comprising a magazine and a shell surrounding the magazine, of an internally and externally threaded cup having an annular flange surrounding the end of the shell; an eraser mounted within the shell; a screw arranged

axially within the cup and detachably engaging the eraser therein; and an ornamental knob surrounding the cup and having an internally threaded annular flange therein to engage the external threads on the cup.

6. The combination with a pencil comprising a shell having a magazine rotatably mounted therein of a cup mounted upon the end of the magazine and having an annular flange arranged to surround the end of the shell; an eraser within the cup; a screw arranged axially within the cup and detachably engaging the eraser therein; and means for securing the screw and an end of the magazine to the cup.

7. The combination with a pencil comprising a shell having a magazine rotatably mounted therein of a cup mounted upon the end of the magazine and having an annular flange arranged to surround the end of the shell; an eraser within the cup; a screw arranged axially within the cup and detachably engaging the eraser therein; means for securing the screw and an end of the magazine to the cup; and an ornamental knob arranged to inclose the cup and adapted for detachable engagement therewith.

8. The combination with a pencil comprising a shell having a magazine rotatably mounted therein of a cup mounted upon the end of the magazine and having an annular flange arranged to surround the end of the shell; an eraser within the cup; a screw arranged axially within the cup and detachably engaging the eraser therein; means for securing the screw and end of the magazine to the cup; and an ornamental knob arranged to inclose the cup and having a depending flange therein adapted to detachably engage said cup.

In witness whereof I hereunto set my signature.

WADE W. MOORE.